

Figure 1

N-terminally modified peptides

Sequence	MIC ($\mu\text{g/ml}$)	
	<i>K. pneumoniae</i> ATCC 10031	<i>P. aeruginosa</i> ATCC 10145
Butanoyl-RWF-NH ₂	250	250
Hexanoyl-RWF-NH ₂	62	62
Octanoyl-RWF-NH ₂	8	15
Decanoyl-RWF-NH ₂	8	8
Stearoyl-RWF-NH ₂	500	500
(α -Stearoyl, γ -stearoyl-K)-RWF-NH ₂	>500	>500
(α -Octanoyl, γ -octanoyl-K)-RWF-NH ₂	8	31
Naphthoyl-RWF-NH ₂	15	62
Naphthylacetyl-RWF-NH ₂	15	15
Octanoyl-RWC-NH ₂ (Monomer)	8	15
Octanoyl-RWC-NH ₂ (Dimer)	4	15
Octanoyl-RW-NH-CH ₂ -C ₆ H ₅	62	62
(α [α -Octanoyl-RW, γ -octanoyl-RW]-K)-NH ₂	4	8
Octanoyl-RW-NH ₂	15	8
Octanoyl-RF-NH ₂	500	500
Octanoyl-RC-NH ₂	62	250
Octanoyl-RY-NH ₂	500	>500
Octanoyl-RW-OH	>500	>500
Octanoyl-R-NH-CH ₂ -C ₆ H ₅	250	125
Octanoyl-R-NH ₂	>500	>500
Octanoyl-W-OH	>500	>500

Figure 2

N- and C-terminally modified peptides

Sequence	MIC (µg/ml)	
	<i>K. pneumoniae</i> ATCC 10031	<i>P. aeruginosa</i> ATCC 10145
Octanoyl-NH-octyl	125	250
Octanoyl-R-NH-octyl	4	4
Octanoyl-G-NH-octyl	>500	>500
Octanoyl-H-NH-octyl	>500	>500
Octanoyl-K-NH-octyl	15	15
Heptanoyl-R-NH-heptyl	31	15
Nonanoyl-R-NH-nonyl	2	4
Decanoyl-R-NH-decyl	4	15
Octanoyl-RA-NH-octyl	15	8
Octanoyl-RC-NH-octyl	8	15
Octanoyl-RF-NH-octyl	8	8
Octanoyl-RG-NH-octyl	8	8
Octanoyl-RH-NH-octyl	8	2
Octanoyl-HR-NH-octyl	15	4
Octanoyl-RK-NH-octyl	125	15
Octanoyl-RL-NH-octyl	8	8
Octanoyl-RN-NH-octyl	62	8
Octanoyl-RQ-NH-octyl	15	8
Octanoyl-RR-NH-octyl	4	4
Octanoyl-RW-NH-octyl	125	125
Octanoyl-RY-NH-octyl	8	8
Octanoyl-RRR-NH-octyl	8	4
Butanoyl-RG-NH-butyl	>500	>500
Hexanoyl-RG-NH-hexyl	>500	>500
Hexanoyl-RR-NH-hexyl	125	62
Heptanoyl-RR-NH-heptyl	31	15
Nonanoyl-RR-NH-nonyl	2	2
Decanoyl-RR-NH-decyl	4	4
Butanoyl-RR-NH-octyl	250	125
Hexanoyl-RR-NH-octyl	31	15
Octanoyl-RR-NH-hexyl	31	4
Octanoyl-RR-NH-butyl	250	31
Benzoyl-RR-NH-benzyl	500	500
Octanoyl-KK-NH-octyl	62	>500
Octanoyl-KW-NH-octyl	>500	>500
Octanoyl-KG-NH-octyl	>500	>500
Octanoyl-KR-NH-octyl	4	2
Octanoyl-FF-NH-octyl	>500	>500
Octanoyl-HH-NH-octyl	>500	>500
Octanoyl-LL-NH-octyl	>500	>500
Octanoyl-RFFR-NH-octyl	4	4

Figure 3

Diacyl Peptides vs. Clinical Organisms

Organism	MIC (µg/ml)				
	Octanoyl-R-NH-octyl	Octanoyl-KR-NH-octyl	Octanoyl-RR-NH-octyl	Nonanoyl-R-NH-nonyl	Decanoyl-RR-NH-decyl
<i>B. cepacia</i> ATCC 25416	>125	>125	>125	>125	>125
<i>E. coli</i> ATCC 25922	7.8	3.9	3.9	3.9	3.9
<i>K. pneumoniae</i> ATCC 10031	3.9	3.9	3.9	2	3.9
<i>K. pneumoniae</i> ATCC 27736	31.3	62.5	31.3	3.9	3.9
<i>P. aeruginosa</i> ATCC 10145	7.8	3.9	3.9	3.9	3.9
<i>P. aeruginosa</i> ATCC 27853	7.8	3.9	2	3.9	3.9
<i>P. aeruginosa</i> FRD1	15.6	7.8	3.9	7.8	7.8
<i>S. aureus</i> ATCC 29213	3.9	3.9	3.9	2	2
<i>S. aureus</i> (MRSA) ATCC 33591	3.9	3.9	2	2	2
<i>S. sanguis</i> ATCC 10556	7.8	15.6	7.8	4	2
<i>S. mutans</i> ATCC 25175	3.9		3.9	3.9	3.9
<i>C. albicans</i> ATCC 10231	3.9	31.3	31.3	2	62.5